

FIG. 1

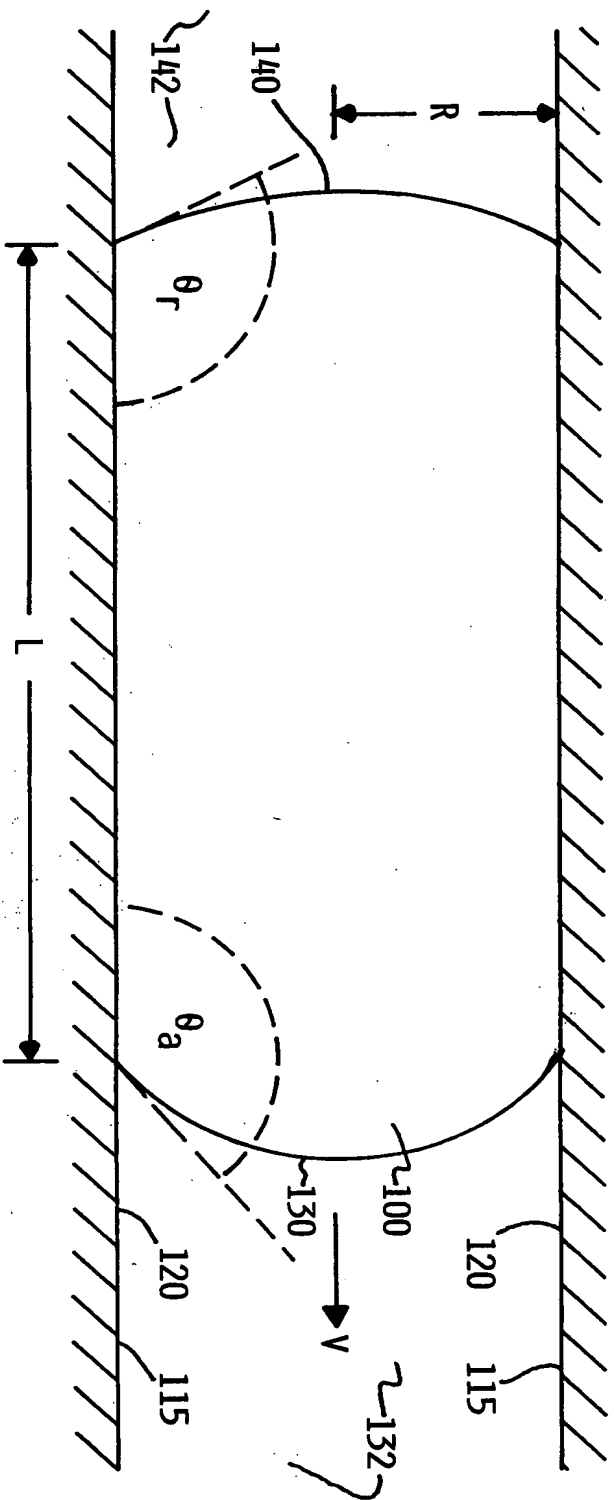


FIG. 1A

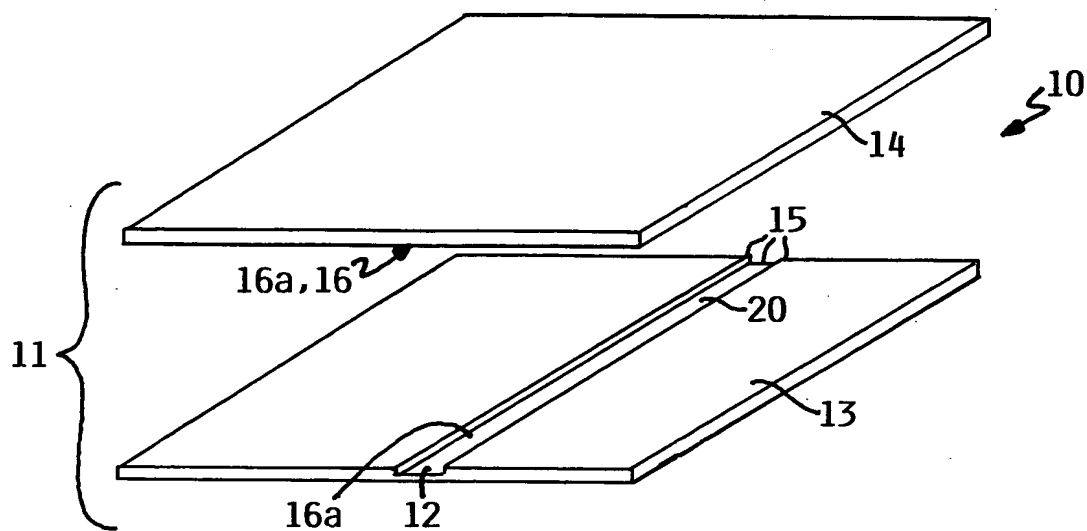


FIG. 1B

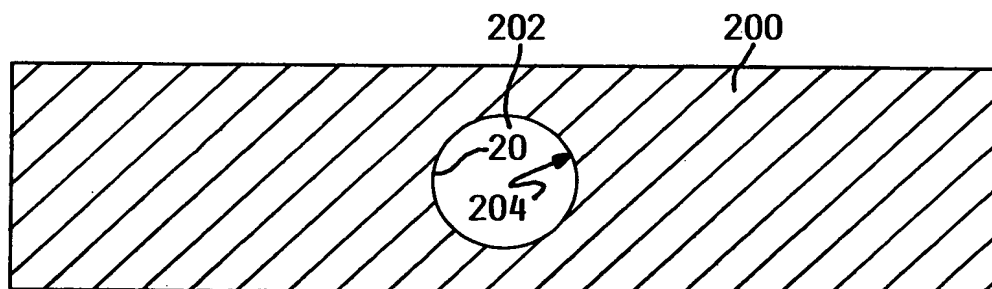


FIG. 1C

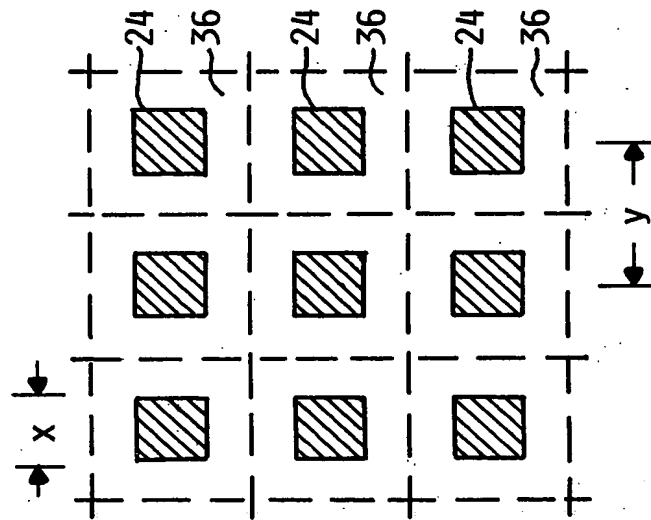


FIG. 2

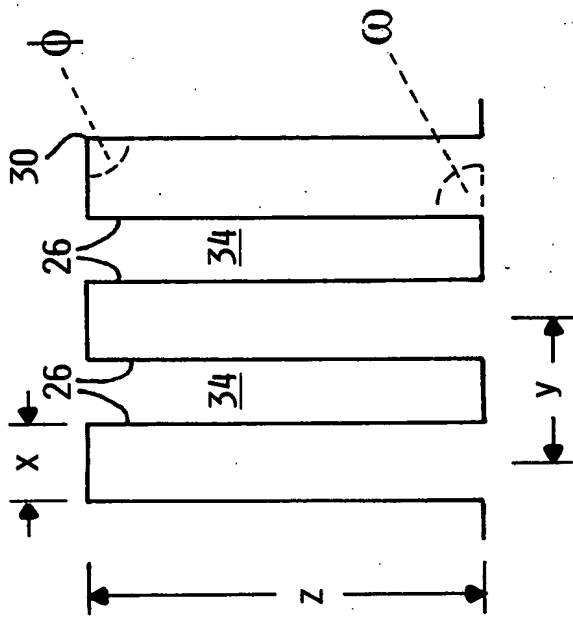


FIG. 3

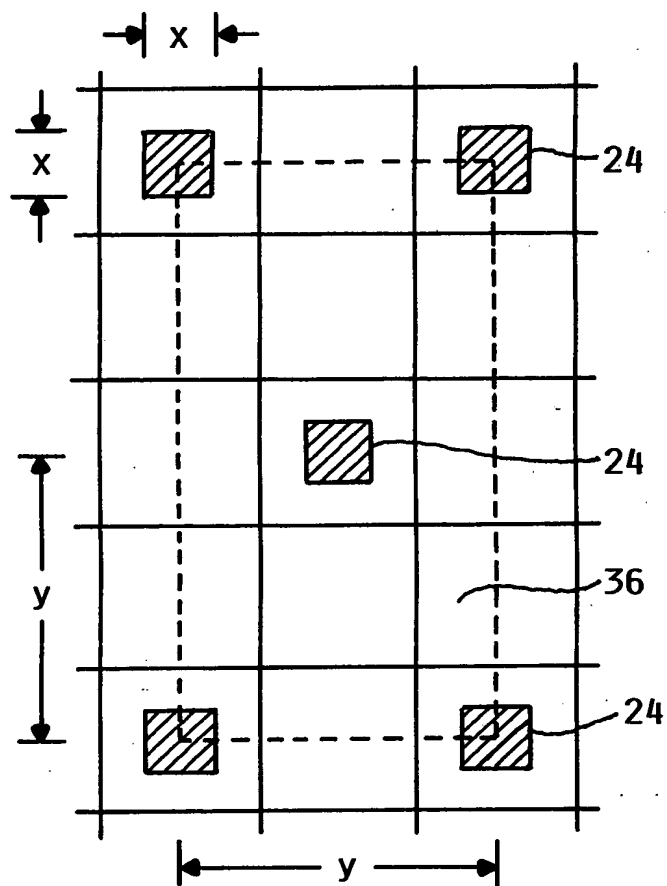


FIG. 4

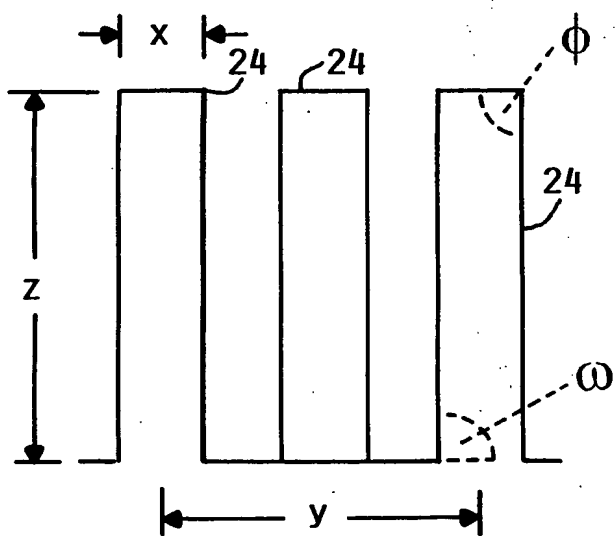


FIG. 5

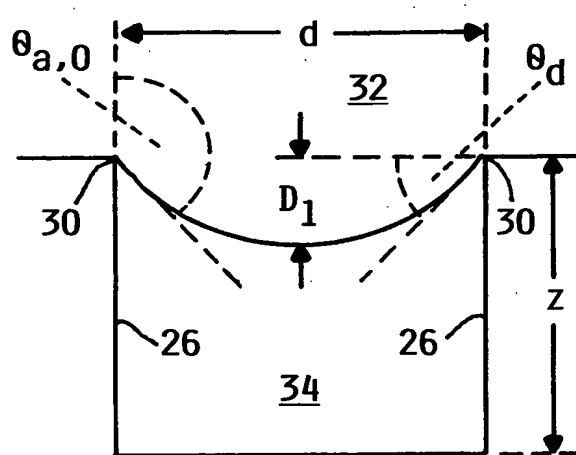


FIG. 6

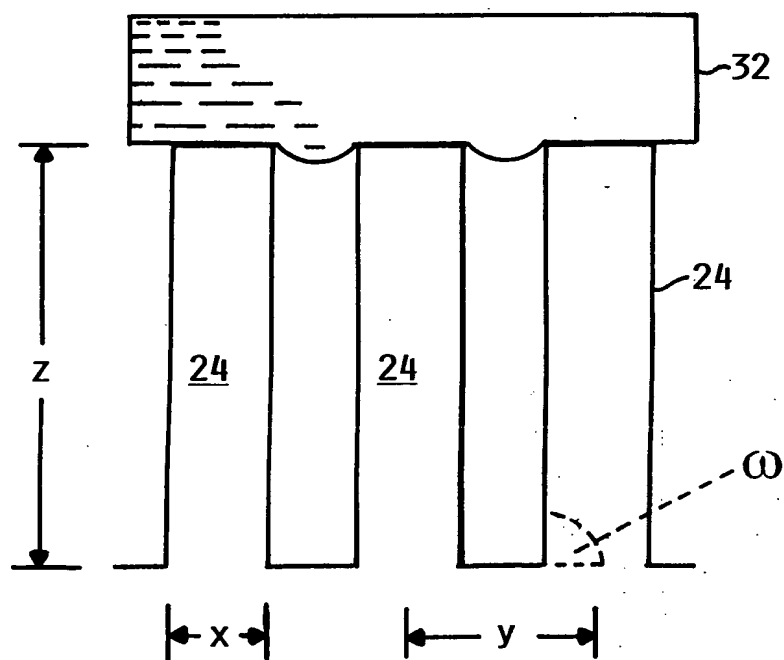


FIG. 7

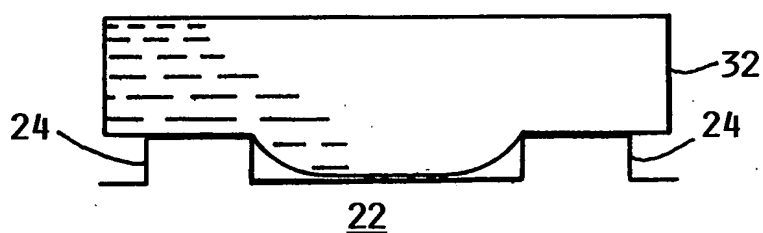


FIG. 8

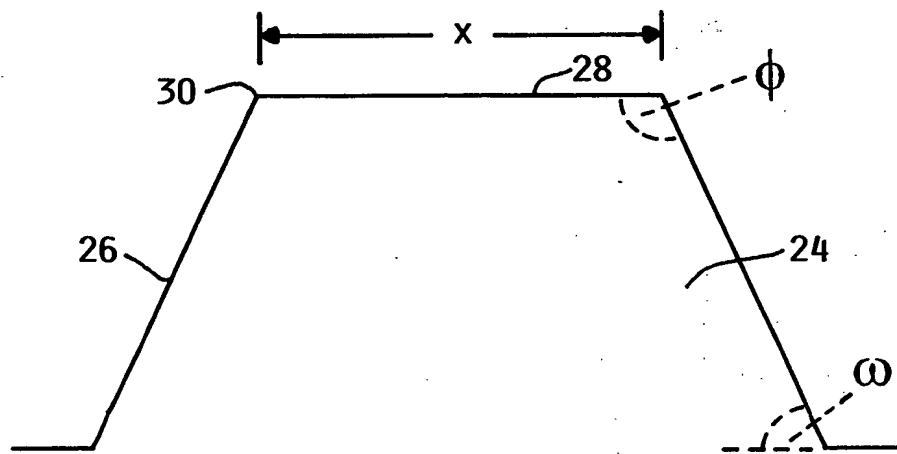


FIG. 9

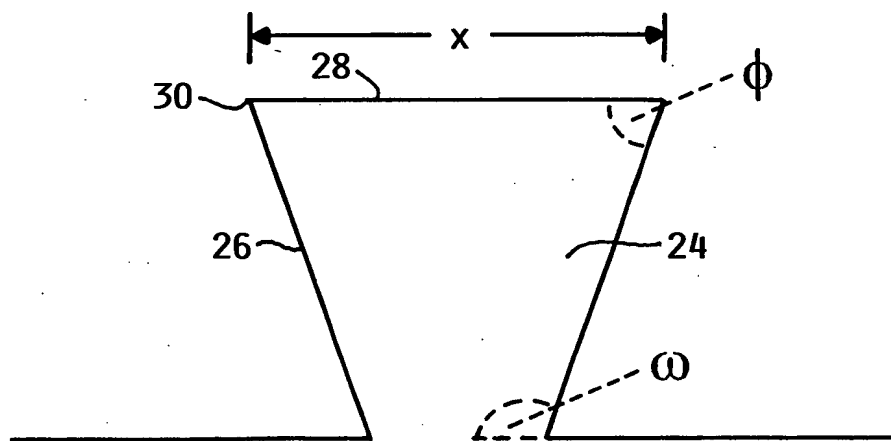


FIG. 10

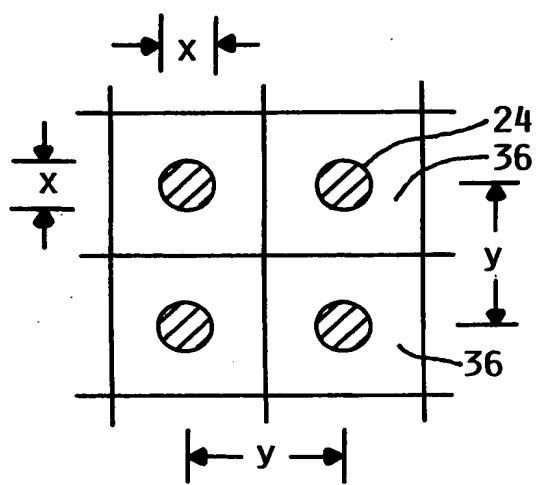


FIG. 11

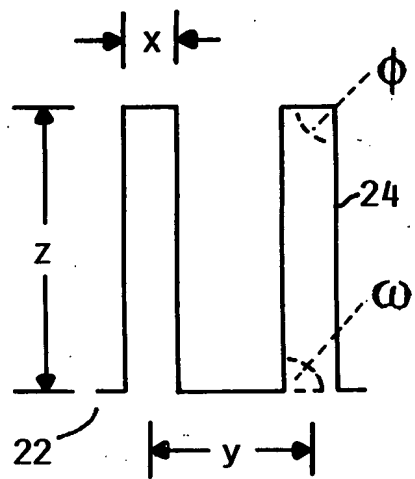


FIG. 12

Contact Line Density (Λ) and Linear Fraction of Contact Along Asperities (λ_p)		
Geometry	Λ	λ_p
Hexagonal Array of Square Posts	$4x \frac{1}{y^2}$	$\frac{(x/y)}{\{[5/4-2(x/y)+(x/y)^2]^{1/2} + x/y\}}$
Rectangular Array of Square Posts	$4x \frac{1}{y^2}$	$\frac{x}{y}$
Rectangular Array of Cylindrical Posts	$\pi x \frac{1}{y^2}$	$(1-x/y) [1+(1/2\pi-1)(x/y)]$
Parallel Ridges	$\frac{2}{y}$	$\frac{x}{y}$

FIG.13

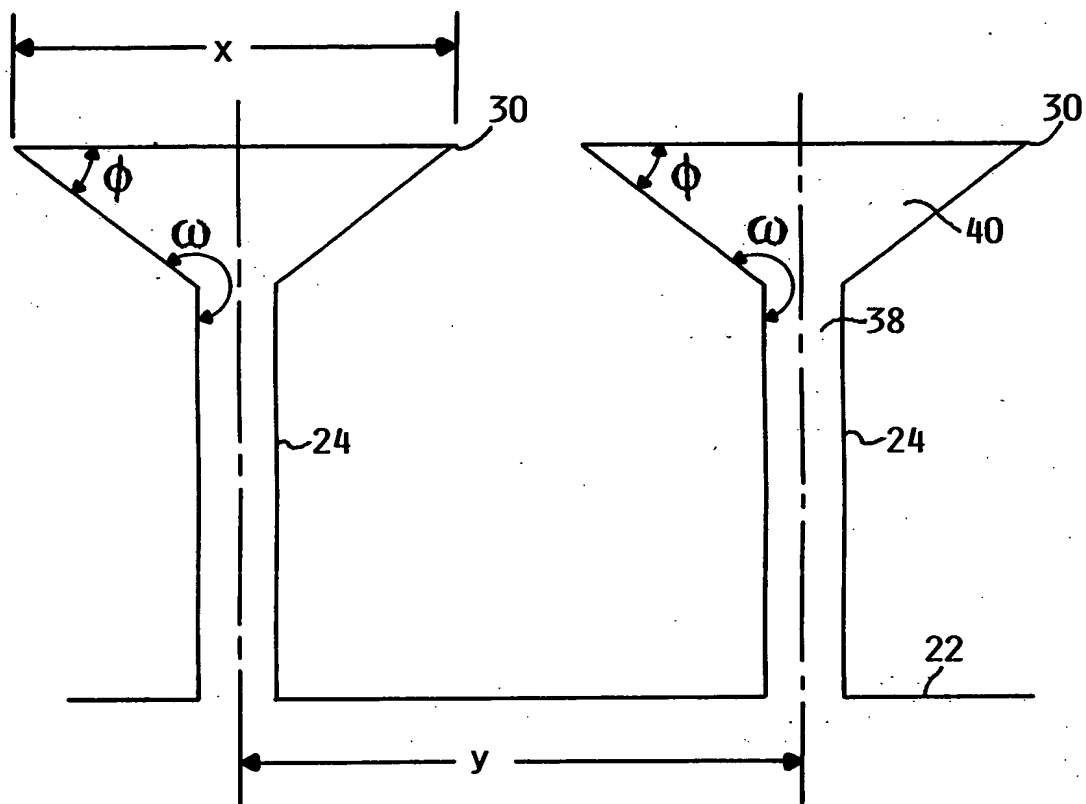


FIG. 14

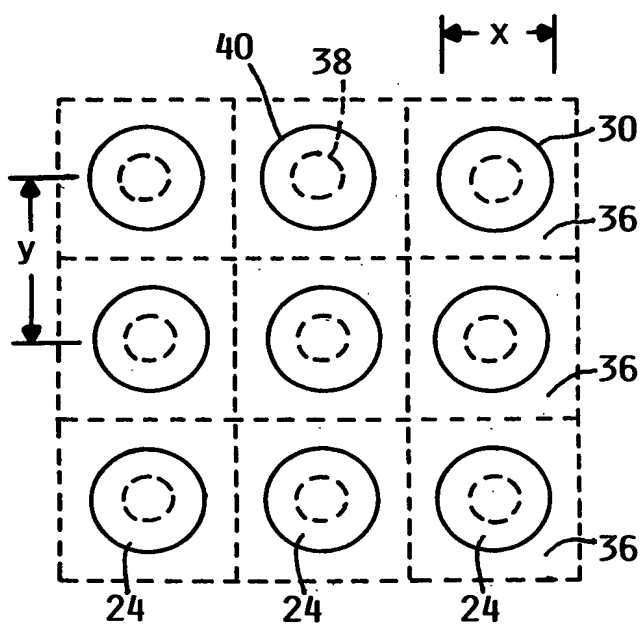


FIG. 15

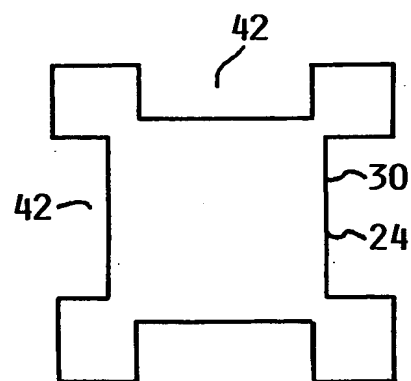


FIG. 16

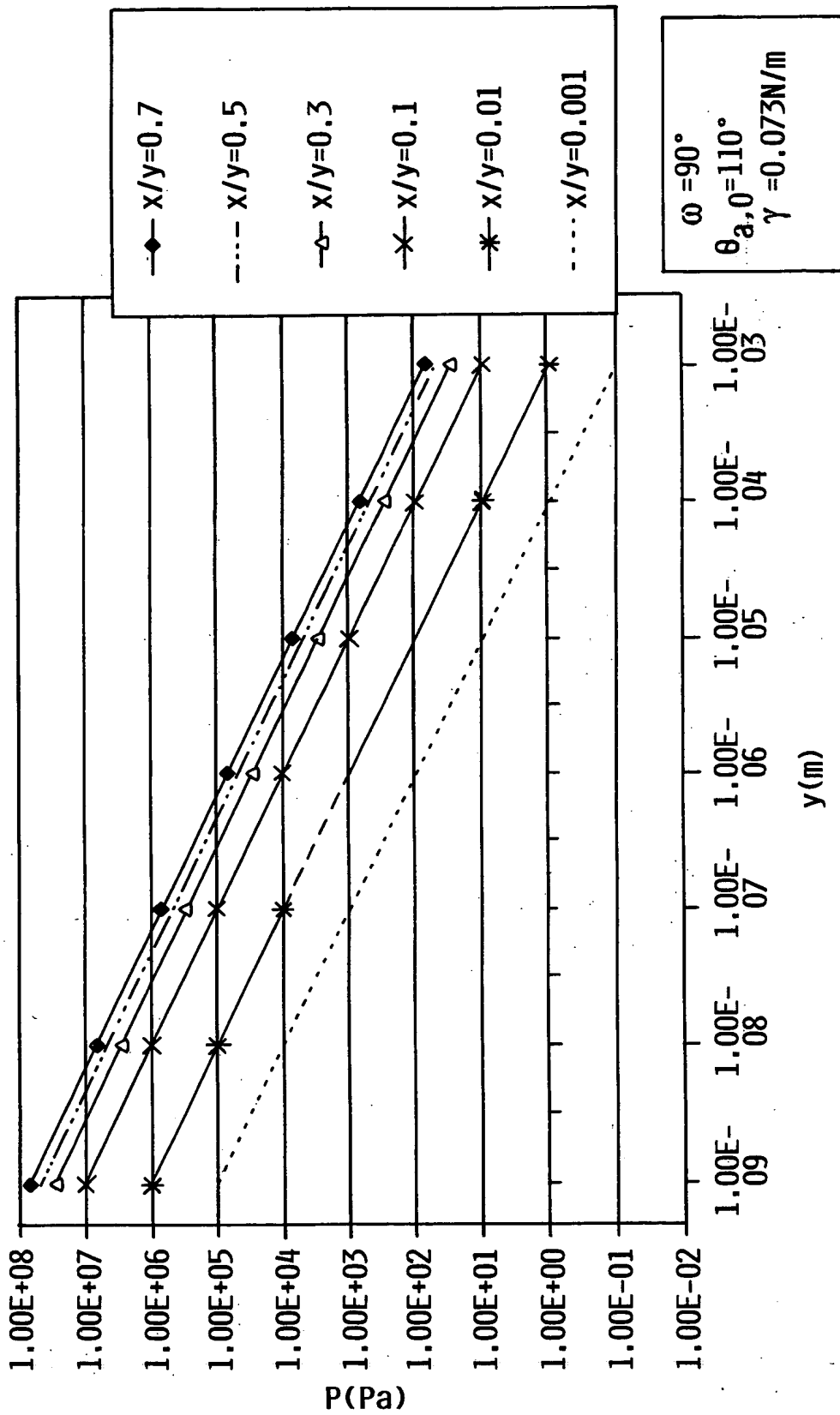


FIG. 17